Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended). Apparatus for analyzing an audio signal with regard to rhythm information of the audio signal by using an autocorrelation function, comprising:

means for dividing the audio signal into at least two sub-band signals;

means for examining at least one sub-band signal with regard to a periodicity in the at least one sub-band signal by an autocorrelation function, to obtain rhythm raw-information for the sub-band signal, wherein a delay is associated to a peak of the autocorrelation function;

means for postprocessing the rhythm raw-information for the sub-band signaldetermined signal determined by the autocorrelation function, to obtain postprocessed rhythm raw-information for the sub-band signal, so that in the postprocessed rhythm raw-information an ambiguity in an integer plurality multiple of a delay, to which an autocorrelation function peak is associated, is reduced compared to the rhythm raw-information before post processing,

or a signal portion is added at an integer fraction of a

delay, the integer fraction being determined by dividing "1"

by an integer, to which an autocorrelation function peak is

associated; and

means for establishing the rhythm information of the audio

signal by using the postprocessed rhythm raw-information of

the sub-band signal and by using another sub-band signal of

the at least two sub-band signals.

Claim 2 (previously presented). Apparatus according to claim

1, wherein the means for postprocessing comprises:

means for calculating a version of the rhythm raw-information

of a sub-band signal spread by an integer factor; and

means for subtracting the version of the rhythm raw-

information of the sub-band signal spread by an integer factor

larger than one, or a version of the rhythm raw-information of

the sub-band signal derived from this version, to obtain the

postprocessed rhythm raw-information for the sub-band signal.

Claim 3 (original). Apparatus according to claim 2, wherein

means for subtracting is disposed to perform, prior to

subtracting, a weighting of the spread version with a factor between zero and one, to generate the derived version.

Claim 4 (original). Apparatus according to claim 1, wherein means for postprocessing comprises:

means for calculating a version of the rhythm raw-information compressed by an integer factor larger than one; and

means for adding the compressed version of the rhythm raw-information of the sub-band signal or a version derived therefrom to the rhythm raw-information of the sub-band signal, to obtain the postprocessed rhythm raw-information for the sub-band signal.

Claim 5 (original). Apparatus according to claim 4, wherein the means for adding is disposed to perform, prior to adding, a weighting of the compressed version of the rhythm raw-information by a factor between zero and one, such that a weighted compressed version of the rhythm raw-information is added to the rhythm raw-information of the sub-band signal to generate the derived version.

Claim 6 (original). Apparatus according to claim 1, further comprising:

means for evaluating a quality of the periodicity of the
postprocessed rhythm raw-information, to obtain a significance
measure for the sub-band signal,

wherein means for establishing is further disposed to
establish the rhythm information of the audio signal by
considering the significance measure of the sub-band signal.

Claim 7 (currently amended). Method for analyzing an audio
signal with regard to rhythm information of the audio signal
by using an autocorrelation function, comprising:

dividing the audio signal into at least two sub-band signals,

examining at least one sub-band signal with regard to a
periodicity in the at least one sub-band signal by an
autocorrelation function, to obtain rhythm raw-information for
the sub-band signal, wherein a delay is associated to a peak
of the autocorrelation function;

postprocessing the rhythm raw-information for the sub-band
signal determined by the autocorrelation function, to obtain
postprocessed rhythm raw-information for the sub-band signal,
so that in the postprocessed rhythm raw-information an

ambiguity in the integer ~~plurality~~ multiple of a delay, to

which an autocorrelation function peak is associated, is

reduced compared to the rhythm raw-information before post

processing, or a signal portion is added at an integer

fraction of a delay, the integer fraction being determined by

dividing "1" by an integer, to which an autocorrelation

function peak is associated; and

establishing the rhythm information of the audio signal by

using the postprocessed rhythm raw-information of the sub-

band signal and by using a further sub-band signal of the at

least two sub-band signals.

Claim 8 (currently amended). Apparatus for analyzing an audio

signal with regard to rhythm information of the audio signal

by using an autocorrelation function, comprising:

means for examining the audio signal with regard to a

periodicity in the audio signal, to obtain rhythm raw-

information for the audio signal, wherein a delay is

associated to a peak of the autocorrelation function;

means for postprocessing the rhythm raw-information for the

audio signal determined by the autocorrelation function, to

obtain postprocessed rhythm raw-information for the audio

signal by adding a version of the rhythm raw information ~~forged~~ upset by an integer factor, so that in the postprocessed rhythm raw-information a signal portion is added at an integer fraction of a delay, the integer fraction being determined by dividing "1" by an integer, to which an autocorrelation function peak is associated; and

means for establishing rhythm information of the audio signal by using the postprocessed rhythm raw-information of the audio signal.

Claim 9 (original). Apparatus for analyzing an audio signal with regard to rhythm information of the audio signal by using an autocorrelation function, comprising:

means for examining the audio signal with regard to a periodicity in the audio signal, to obtain rhythm raw-information for the audio signal, wherein a delay is associated to a peak of the autocorrelation function;

means for postprocessing the rhythm raw-information for the audio signal determined by the autocorrelation function, to obtain postprocessed rhythm raw-information for the audio signal, by subtracting a version of the rhythm raw-information

weighted by a factor unequal one and spread by an integer

factor larger than one; and

means for establishing the rhythm information of the audio

signal by using the postprocessed rhythm raw-information of

the audio signal.

Claim 10 (currently amended). Method for analyzing an audio

signal with regard to rhythm information of the audio signal

by using an autocorrelation function, comprising:

examining the audio signal with regard to a periodicity in the

audio signal, to obtain rhythm raw-information for the audio

signal, wherein a delay is associated to a peak of the

autocorrelation function;

postprocessing the rhythm raw-information for the audio signal

by the autocorrelation function, to obtain postprocessed

rhythm raw-information for the audio signal by adding a

version of the rhythm raw information ~~forged~~ upset by an

integer factor, so that in the postprocessed rhythm raw-

information a signal portion is added at an integer fraction

of a delay, <u>the integer fraction being determined by dividing</u>

<u>"1" by an integer,</u> to which an autocorrelation function peak

is associated; and

establishing the rhythm information of the audio signal by using the postprocessed rhythm raw-information of the audio signal.

Claim 11 (original). Method for analyzing an audio signal with regard to rhythm information of the audio signal by using an autocorrelation function, comprising:

examining the audio signal with regard to a periodicity in the audio signal, to obtain rhythm raw-information for the audio signal, wherein a delay is associated to a peak of the autocorrelation function;

postprocessing the rhythm raw-information for the audio signal determined by the autocorrelation function, to obtain postprocessed rhythm raw-information for the audio signal, by subtracting a version of the rhythm raw-information weighted with a factor unequal one and spread by an integer factor larger than one; and

establishing the rhythm information of the audio signal by using the postprocessed rhythm raw-information of the audio signal.